



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

WASHINGTON, D.C. 20546

IN REPLY REFER TO: SL(MAM:nbe)

8 - MAR 1969

Dr. Joshua Lederberg  
Department of Genetics  
Stanford University School of Medicine  
Stanford, California 94305

Dear Dr. Lederberg:

I am pleased to inform you that you have been selected to participate in the planning phase of the 1973 Viking lander as a member of the Active Biology Team. The members of the Team are listed in Enclosure 1, and the role of the scientist and functions of the Active Biology Team are given in Enclosure 2.

It is understood that you are prepared to participate on the average of two days a month in meetings related to the Viking Project. Membership of this Team will not be delegated or transferred to any other individual. Costs related to your participation in this planning phase, which may extend for a period of up to one year, will be covered by a grant which will be negotiated by NASA Headquarters with your University. It is expected that the planning phase will be essentially completed at the time of the selection of the investigators for the 1973 Viking Mars mission. Selection of the investigators for the flight will be based on an open solicitation to which you would be expected to respond.

The Langley Research Center (LaRC) has Project management responsibility for the Viking mission. The Viking Program will be managed by the following persons:

Walter Jakobowski, Program Manager, Code SL, NASA Headquarters  
M. A. Mitz, Program Scientist, Code SL, NASA Headquarters  
James S. Martin, Project Manager, Viking Office, LaRC  
Gerald A. Soffen, Project Scientist, Viking Office, LaRC

You will be contacted in the near future by some of these persons to arrange fiscal matters. If you have any questions, please contact the Program Scientist, Dr. M. A. Mitz, phone 202--962-1384.

Sincerely yours,

John E. Naugle  
Associate Administrator for  
Space Science and Applications

Encls 2

Ref: Proposal from J. Lederberg, Stanford University School of Medicine  
dated 20 November 1968, NASA No. SL-11

February 17, 1969

**Viking Science**  
**Active Biology Team**

The Viking Science Active Biology Team is responsible for the search for life using an integrated instrument capable of providing data interpretable as evidence of active biota on Mars.

The members of the Team are:

Wolf Vishniac

Department of Biology  
University of Rochester  
Rochester, New York 14627  
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Norman H. Horowitz

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Jet Propulsion Laboratory  
4800 Oak Grove Drive  
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Joshua Lederberg ✓

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Gilbert V. Levin

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Washington, D.C. 20011  
Phone: 202--726-6677

Vance I. Oyama

Life Detection Systems Branch  
Ames Research Center  
NASA  
Moffett Field, Calif. 94035  
Phone: 415--961-1111, Ext. 2561

Alexander Rich

Professor of Biophysics  
Massachusetts Institute of Technology  
Cambridge, Mass. 02139  
Phone: 617--864-6900, Ext. 4715

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Enclosure 2

Function and Role of the Scientist

The scientist will participate in this planning effort as a member or leader of a Science Instrument Team. Six of these teams - Imagery, Active Biology, Sampler-Pyrolyzer-Gas Analysis, Meteorological Sensors, Entry Science, Radio - have been identified by NASA as NASA-formed teams, i.e., NASA will select individual scientists to be members of these teams. A Team Leader will be selected by NASA after discussion with the team members. In other areas of investigation, the teams have been formed by the scientists themselves. The functions of the Science Instrument Teams are:

1. To develop a science plan and determine the science to be done by the instrument(s) in the specific area of team responsibility.
2. To formulate the functional specifications and, through the project office, direct the instrument development.
3. To participate in spacecraft and mission tradeoff studies.

Langley Research Center (LaRC) has been designated as the Project Management Center for the Viking Project. Ames Research Center and the Jet Propulsion Laboratory are assisting in this mission. The LaRC Project Office has been designated as the primary channel of interaction between NASA and the Science Instrument Team for the Viking lander.

The Science Instrument Teams will interact with the NASA through their Team Leaders. The Team Leaders will be organized into a Science Steering Group which will be co-chaired by the NASA Project and Program Scientists. The Science Steering Group will integrate the output of the various Science Instrument Teams, develop an overall science plan for the lander, and participate in appropriate mission planning and spacecraft planning activities and reviews.